The Impact of Chlamydia, Gonorrhea, Syphilis, and Genital Herpes on Arizona Adolescents, 2009

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JANICE K. BREWER, GOVERNOR WILL HUMBLE, DIRECTOR

June 5, 2010

Dear Community Stakeholder:

The Arizona Department of Health Services STD Control Program is pleased to provide this updated report on the impact of sexually transmitted diseases (STDs) among Arizona youth. The subsequent information, as depicted in the 2009 graphs and tables herein, highlights the continuing STD epidemic affecting our state's young adult population. In particular, it examines certain populations such as young adults in juvenile detention facilities. These data demonstrate the need for targeted education and prevention resources that will enable all Arizona youth to make healthy decisions regarding sexual activity.

Untreated STDs can cause significant health problems among those who become infected. For instance, untreated chlamydia and gonorrhea can lead to pelvic inflammatory disease (PID). Other young women may suffer ectopic pregnancies and chronic pelvic pain. Worse still, sexually transmitted diseases can lead to infertility or can be transmitted to unborn infants during pregnancy and/or delivery. Arizona law permits minors to seek treatment for STDs without parental or guardian consent (*ARS § 44-132.01*). Chlamydia and gonorrhea testing is now widely available as a urine test. Syphilis, herpes, and HIV testing require a blood specimen.

As demonstrated in this report, chlamydia, gonorrhea, and herpes are more frequently diagnosed in young females than in young males. There are several reasons for this disparity. First, women seek healthcare with more regularity than men. Second, national chlamydia screening guidelines recommend annual testing (that includes a test for gonorrhea) among sexually active women aged 25 years and younger. Similar screening guidelines do not exist for men. Finally, chlamydia, gonorrhea, and herpes infections are frequently asymptomatic in men (and sometimes in women) and thus may go undetected.

In April 2008, Gov. Napolitano signed Senate Bill 1078 (Expedited Therapy) into law. New statutory language makes legal the practice of Expedited Partner Therapy (EPT) for STDs. Specifically, medical providers can dispense an extra dose(s) of an antimicrobial medication, or write a separate prescription, to their patient to deliver to their partner(s). This practice is currently supported for the treatment of partners of patients with chlamydia and/or gonorrhea. Implementation of this new public health tool has demonstrated promise in providing treatment to asymptomatic partners and preventing re-infection.

We recommend continued vigilance among providers, clinics, schools, and community/government agencies serving young adult populations as it relates to STD testing and comprehensive sex education. We hope this information can be used to further efforts to increase awareness of this important health issue facing Arizona youth. Please do not hesitate to contact us with further questions regarding STD education, prevention, and screening opportunities.

Sincerely, Roxanne Ereth, MPH STD Control Program Manager

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Overview of STD Prevalence and Trends Among 10-19 Year Olds in Arizona

Surveillance of sexually transmitted diseases remains an important public health activity of the Arizona Department of Health Services. Arizona continues to have very high rates of sexually transmitted diseases (STDs). Bacterial (chlamydia, gonorrhea, syphilis) and viral (genital herpes) STDs disproportionately affect youth ages 10-19. In 2009 alone, 31% of all STDs reported in Arizona were reported in the 10-19 year old age group.

Chlamydia, gonorrhea, and herpes are more frequently diagnosed in young females than in young males. There are several reasons for this disparity. First, women are referred for primary health care services more frequently than men. Second, national chlamydia screening guidelines recommend annual testing among sexually active women aged 25 years and younger. Similar screening guidelines do not exist for men. Finally, chlamydia, gonorrhea, and herpes infections are frequently asymptomatic in men (and sometimes in women) and thus may go undetected.

The following is a summary of each of these reportable STDs. All data presented in this report were derived from the ADHS STD surveillance database. The population denominators used in this report were obtained from the Arizona Department of Health Services Vital Statistics Division (http://www.azdhs.gov/plan/).

Chlamydia

Overview

- In 2009, there were 8,642 reported cases of chlamydia among 10-19 year olds, corresponding to 938.6 cases per 100,000 population (Figures 1, 4).
- During 2008-2009, the rate of chlamydia remained stable among 10-19 year olds (Figure 4).

Infertility Prevention Project (IPP)

- The CDC-funded Infertility Prevention Project (IPP) supports STD screening in certain family planning clinics, STD clinics, and juvenile correctional health facilities.
- STD screening focuses on sexually active women aged 25 years or younger.
- Chlamydia positivity remains high in juvenile detention facilities among males and females (Figures 2, 3).

Race/Ethnicity

- In 2009, African American and Native American adolescents continued to have the highest rates of chlamydia morbidity (2,371.6 and 1,237.9 per 100,000 population, respectively) (Figure 5).
- The overall Arizona rate for chlamydia among 10-19 year olds was 936.1 per 100,000 population in 2009 (Figure 5).

County

- Graham and Navajo Counties had the highest rates of chlamydia (975.0 and 974.3 per 100,000 respectively) among 10-19 year olds (Figure 6).
- Maricopa and Pima Counties, the two most populous counties, had the greatest numbers of chlamydia cases among 10-19 year olds in 2009: 4,730 and 1,260 respectively (Tables 3-4).

Gender

• From 2001 to 2009, adolescent females had a 4.5 to 5.9-fold higher rate of chlamydia compared to adolescent males (Figure 7).

1 --

Gonorrhea

Overview

- In 2009, there were 761 reported cases of gonorrhea among 10-19 year olds, corresponding to 82.4 cases per 100,000 population (Figures 1, 21).
- During 2006-2009, the rate of gonorrhea decreased 44% among 10-19 year olds (Figure 21).

Race/Ethnicity

- In 2009, African American adolescents continued to have the highest rates of gonorrhea morbidity (526.5 per 100,000 population) (Figure 22).
- The highest rate for African Americans, aged 10-19 years old, occurred in 2007 with 761.2 cases per 100,000 (Figure 22).
- The overall Arizona rate for gonorrhea among 10-19 year olds was 82.5 cases per 100,000 population in 2009 (Figure 22,24).
- During 2007-2009 the rate of diagnosed gonorrhea among adolescent African Americans decreased by 31% (Figure 22).
- Between 2008-2009, the rate of diagnosed gonorrhea among adolescent African Americans increased by 22% (Figure 22).
- African Americans were the only adolescent race ethnicity group that experienced an increase in gonorrhea rates from 2008-2009.

County

- Graham County had the highest rate of gonorrhea (103.4 per 100,000) among 10-19 year olds (Figure 23).
- Maricopa and Pima Counties had the greatest numbers of gonorrhea cases among 10-19 year olds in 2008 (519 and 99 cases, respectively) (Tables 7-8).

Gender

• During 2001-2009, adolescent females had a 1.8 to 2.2-fold higher rate of gonorrhea compared to adolescent males (Figure 24).

Syphilis

Overview

- In 2009, there were 53 reported cases of syphilis among 10-19 year olds, corresponding to 5.7 cases per 100,000 population (Figures 1, 29).
- During 2008-2009, the rate of syphilis remained stable among 10-19 year olds (Figure 26).
- During 2005-2007, the rate of syphilis increased 94% among 10-19 year olds (Figure 26). The large increase from 2005 to 2007 was attributed to three significant syphilis outbreaks among Native Americans in Arizona and a rise in the number of cases in rural Arizona counties.

Race/Ethnicity

- In 2009, African American and Hispanic adolescents had the highest rates of syphilis morbidity (12.1 and 12.4 per 100,000, respectively) (Figure 27).
- The overall Arizona rate for syphilis among 10-19 year olds was 5.7 per 100,000 population in 2009 (Figure 27).
- In 2009, the rate of syphilis decreased by 69% from the previous year among Native Americans (Figure 27).

2

County

- In 2009, Pima County had the highest rate of syphilis (12.9 per 100,000) among 10-19 year olds (Figure 28).
- Maricopa and Pima Counties had the greatest numbers of syphilis cases among 10-19 year olds in 2009 (27 and 18 cases, respectively) (Tables 11-12).

Gender

• During 2001-2009, adolescent females had a 0.9 to 4.4-fold higher rate of syphilis compared to males (Figure 29).

Genital Herpes*

Overview

- In 2009, there were 77 reported cases of genital herpes among 10-19 year olds, corresponding to 8.3 cases per 100,000 population (Figures 1, 34).
- During 2008-2009, the rate of gonorrhea decreased 60% among 10-19 year olds (Figure 31).
- Herpes reporting is unreliable in estimating incidence of disease due to incomplete provider reporting, variable testing practices, and the chronic incurable nature of this infection.

Race/Ethnicity

- In 2009, Native American and Non-Hispanic White adolescents had the highest rates of genital herpes (11.1 and 9.3 per 100,000, respectively) (Figure 32).
- The overall Arizona rate for genital herpes among 10-19 year olds was 8.3 cases per 100,000 population in 2009 (Figure 32).

County

- La Paz County had the highest rate of genital herpes (43.2 per 100,000) among 10-19 year olds (Figure 33).
- Pima and Maricopa Counties had the greatest numbers of genital herpes cases among 10-19 year olds in 2009: (25 and 15 cases, respectively) (Tables 15-16).

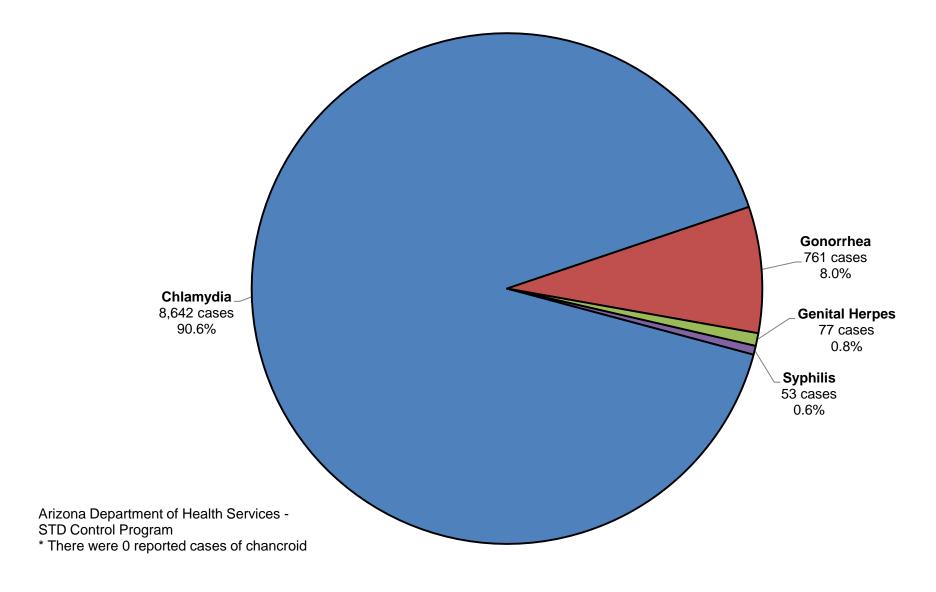
Gender

• During 2001-2009, adolescent females had a 2.8 to 7.4-fold higher rate of genital herpes compared to adolescent males (Figure 34).

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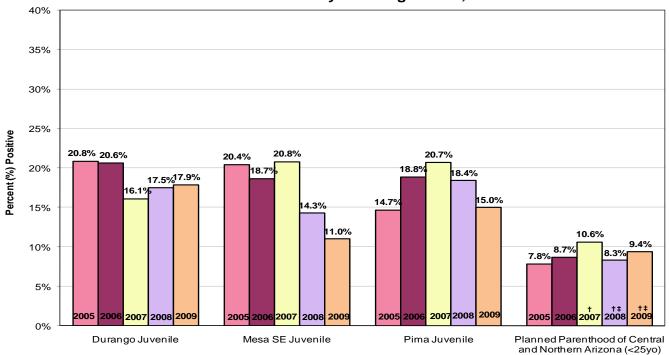
^{*} All previously unreported cases

Figure 1. Reportable Sexually Transmitted Diseases in 10-19 Year Olds, Arizona, 2009



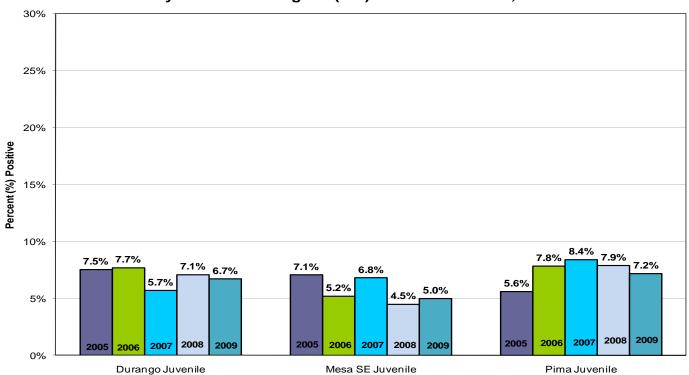
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Figure 2. Percent (%) Positivity in Females Tested for Chlamydia in Infertility Prevention Program (IPP)
Juvenile Facilities and Family Planning Clinics, 2005-2009

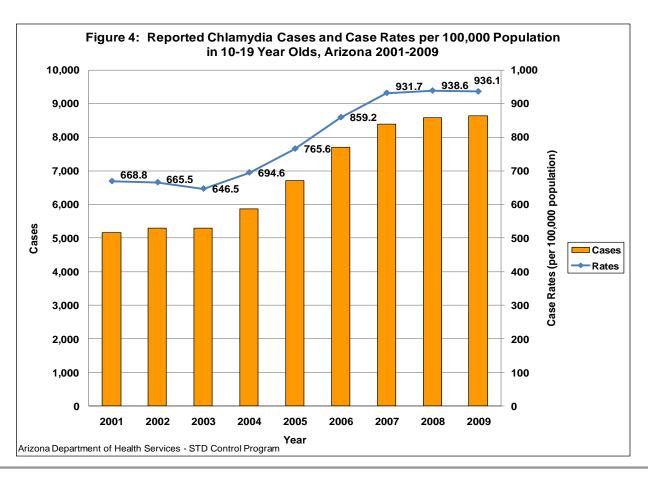


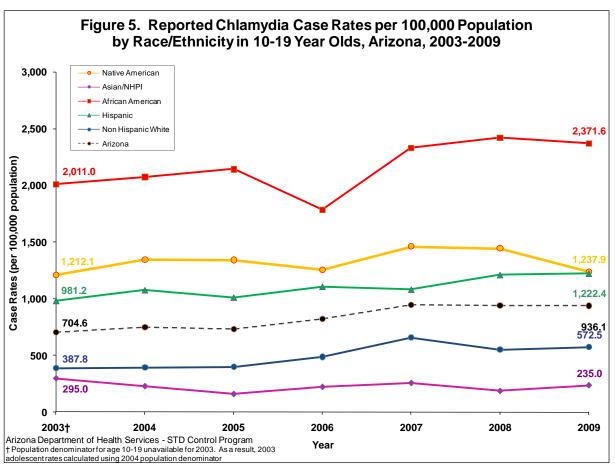
Arizona Family Planning Council - Infertility Prevention Project †PPCNA year includes all AZ Planned Parenthood clinics †PPCNA year includes females <25 yo

Figure 3. Percent (%) Positivity in Males Tested for Chlamydia in Infertility Prevention Program (IPP) Juvenile Facilities, 2005-2009

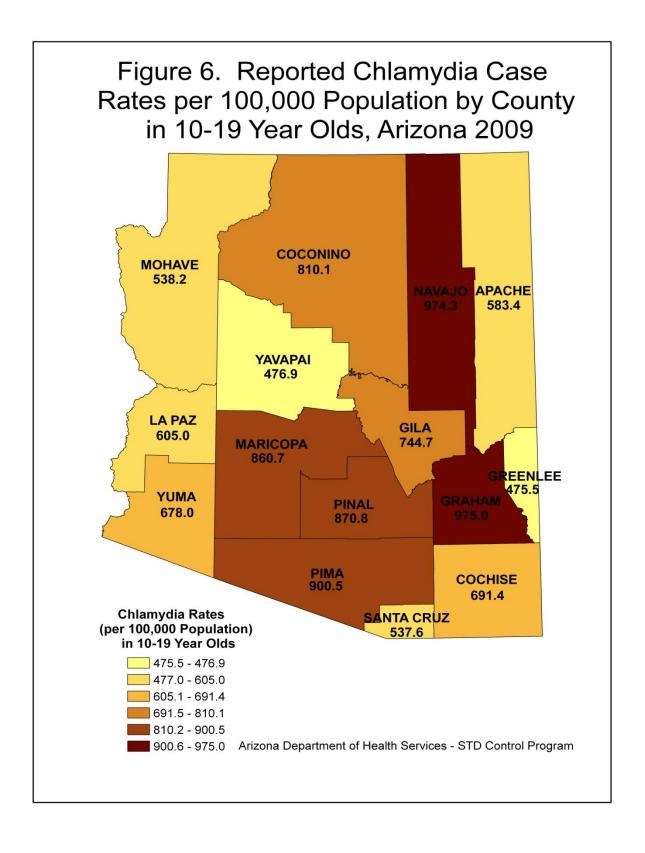


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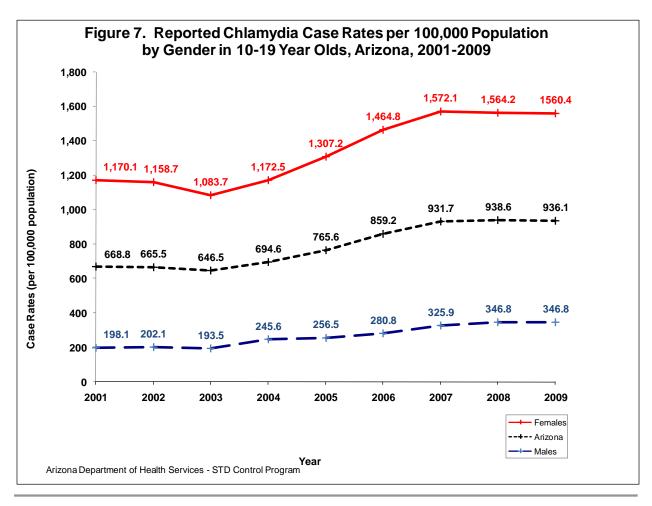


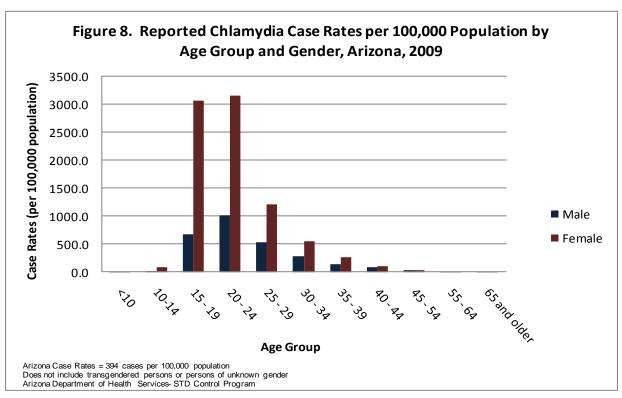


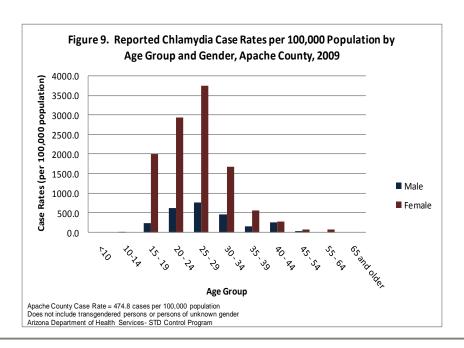
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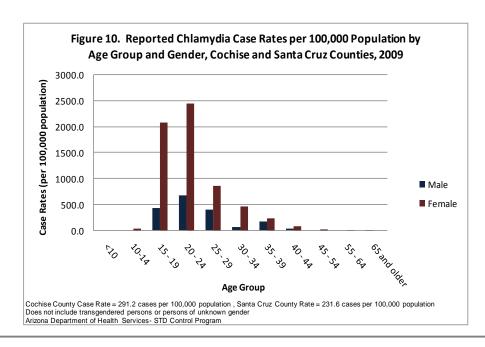


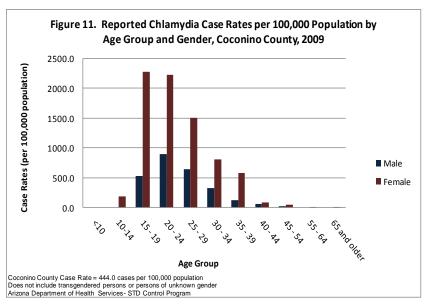
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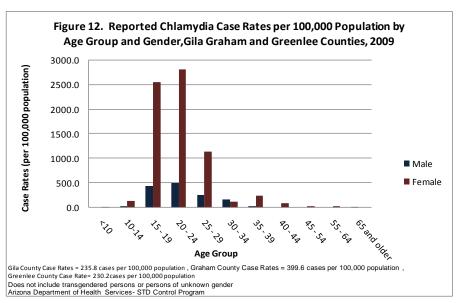


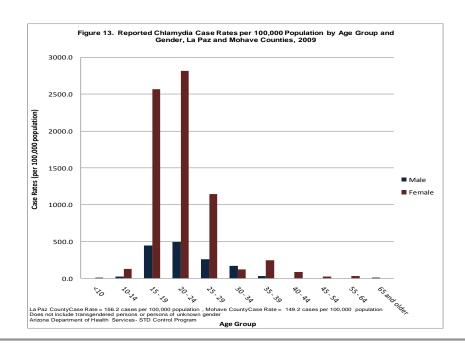


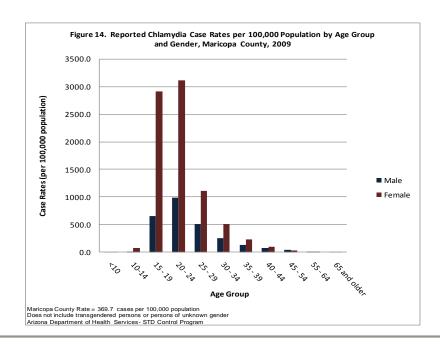


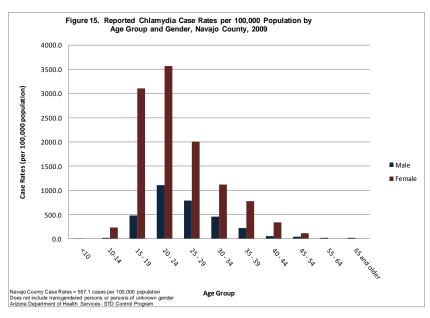


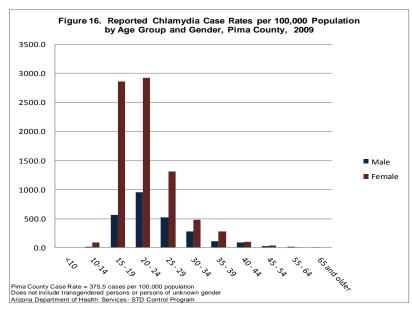


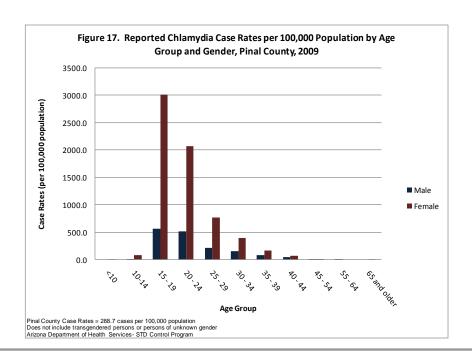


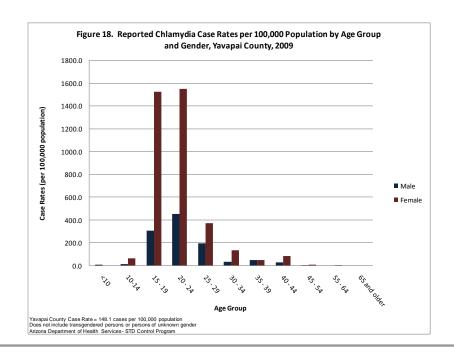


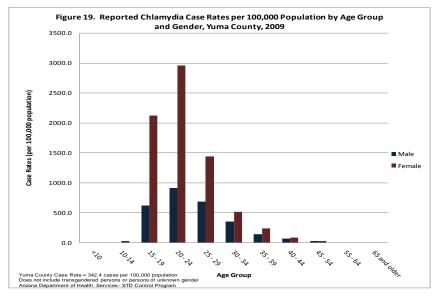












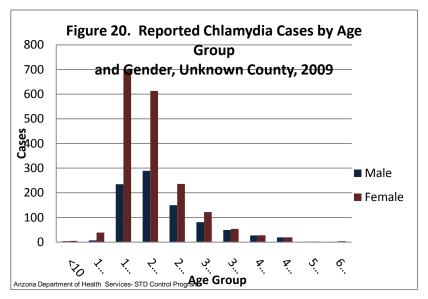


Table 1: Female Chlamydia Case Rates by Age and County, Arizona, 2009

Gila, Age Cochise & Graham, & La Paz & Group Santa Cruz Coconino Greenlee Mohave Maricopa Navajo Pima ¤ Pinal Yavapai Yuma Arizona Apache <10 0.0 0.0 0.0 14.2 0.0 3.0 0.0 0.0 4.6 0.0 0.0 3.4 10-14 0.0 44.0 186.0 132.1 43.7 79.2 230.5 82.9 91.0 63.8 25.7 98.4 15 - 19 2,011.4 2,088.2 2,288.1 2,564.1 2,002.5 2,913.5 3,102.8 2,861.3 3,014.0 1,527.9 2,121.1 3,070.0 20 - 24 2,951.9 2,449.5 2,231.4 2,815.3 1,553.6 3,107.6 3,559.4 2,917.2 2,079.3 1,551.3 2,956.5 3,157.8 25 - 29 3,759.0 875.2 1,511.5 1,145.3 469.1 1,113.2 2,002.9 1,304.3 772.2 372.7 1,440.8 1,222.7 30 - 34 1,692.0 474.7 817.7 123.7 217.9 512.9 1,118.0 478.4 400.5 136.2 515.4 558.3 35 - 39 570.9 244.0 577.9 246.8 33.1 238.0 784.4 271.7 178.7 48.8 234.0 271.3 40 - 44 282.0 91.6 85.7 91.5 42.5 105.4 345.6 95.3 74.4 86.6 77.2 116.6 45 - 54 80.5 29.6 47.3 29.3 6.8 41.1 119.9 30.6 11.2 12.3 26.3 41.3 76.3 11.7 55 - 64 17.2 14.1 31.1 6.6 0.0 1.7 0.0 6.4 0.0 10.4 >65 0.0 0.0 17.4 0.0 0.0 4.0 0.0 0.0 4.2 0.0 0.0 3.4 Total 777.3 421.6 662.3 496.1 246.5 543.0 466.9 220.8 579.7 856.2 555.3 483.7

Table 2: Male Chlamydia Case Rates by Age and County, Arizona, 2009

				Gila,								
Age		Cochise &		Graham, &	La Paz &							
Group	Apache	Santa Cruz	Coconino	Greenlee	Mohave	Maricopa	Navajo	Pima ¤	Pinal	Yavapai	Yuma	Arizona
<10	0.0	0.0	0.0	0.0	0.0	1.0	10.6	0.0	0.0	8.4	0.0	1.8
10-14	25.8	0.0	0.0	25.3	13.8	8.9	19.8	8.7	17.3	15.1	0.0	12.5
15 - 19	240.7	427.8	532.4	446.1	251.2	655.5	478.8	560.6	569.1	306.5	619.5	686.6
20 - 24	619.4	673.0	896.0	498.8	400.8	986.3	1,105.9	949.0	516.2	454.3	907.3	1,015.0
25 - 29	772.4	405.5	644.3	262.9	127.5	509.3	786.8	523.4	217.1	194.8	678.5	536.3
30 - 34	474.2	66.6	325.0	169.2	50.3	256.4	456.2	272.2	152.9	32.9	350.5	278.7
35 - 39	163.0	180.1	121.2	31.4	16.5	130.4	228.6	111.9	88.9	51.4	137.0	143.0
40 - 44	259.0	33.8	68.2	0.0	44.6	79.1	56.2	82.5	52.8	30.8	63.9	86.2
45 - 54	45.4	0.0	20.6	0.0	7.0	41.3	43.9	20.8	15.2	6.7	28.0	36.3
55 - 64	0.0	0.0	0.0	0.0	0.0	11.5	19.0	17.2	12.6	0.0	0.0	10.6
>65	0.0	7.4	0.0	11.8	0.0	4.5	16.6	3.1	0.0	0.0	0.0	3.9
Total	177.2	127.5	231.7	104.7	54.7	200.0	251.8	189.1	128.4	73.5	198.0	209.2

863 cases from unknown counties (not shown) were calculated into Arizona case rates Unknown gender and transgender cases not included in the tables

^{1,823} cases from unknown counties (not shown) were calculated into Arizona case rates

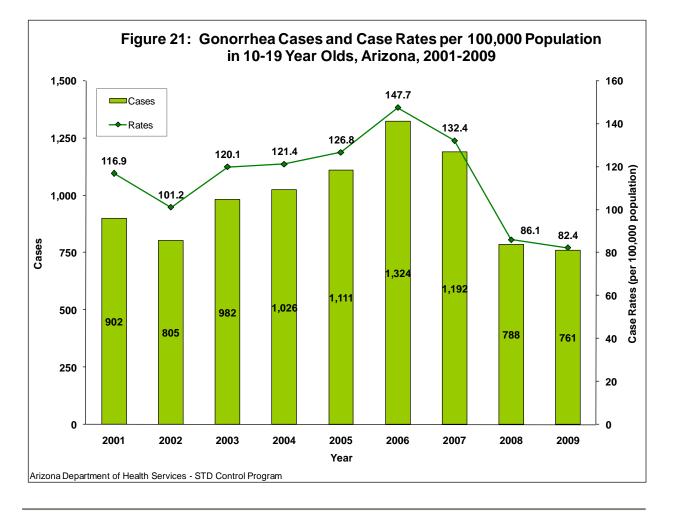
Table 3. Female Chlamydia Cases by Age and County, Arizona, 2009

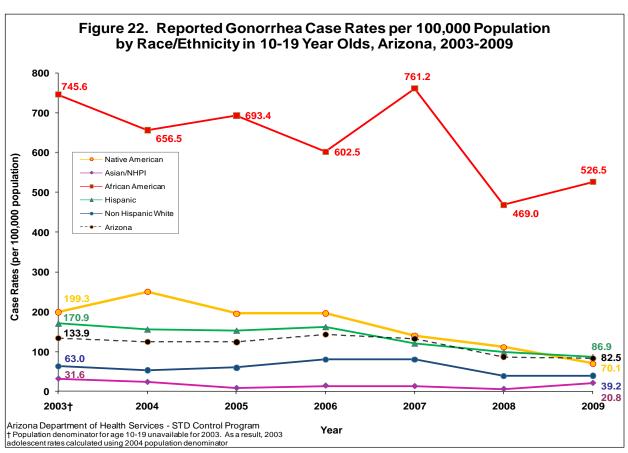
Gila, Cochise & Graham, & La Paz & Age Group Santa Cruz Coconino Greenlee Mohave Maricopa Navajo Pima Pinal Yavapai Yuma Unknown Arizona Apache <10 10-14 15-19 3,709 1,021 6,771 20-24 3,822 1,077 6,828 25-29 1,661 2,920 30-34 1,243 35-39 40-44 45-54 55-64 ≥ 65 Arizona 10,679 2,890 1,823 19,096

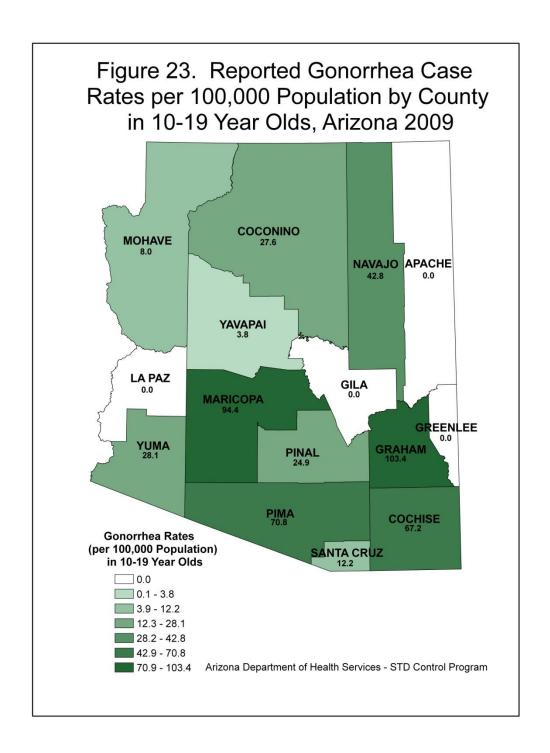
Table 4. Male Chlamydia Cases by Age and County, Arizona, 2009

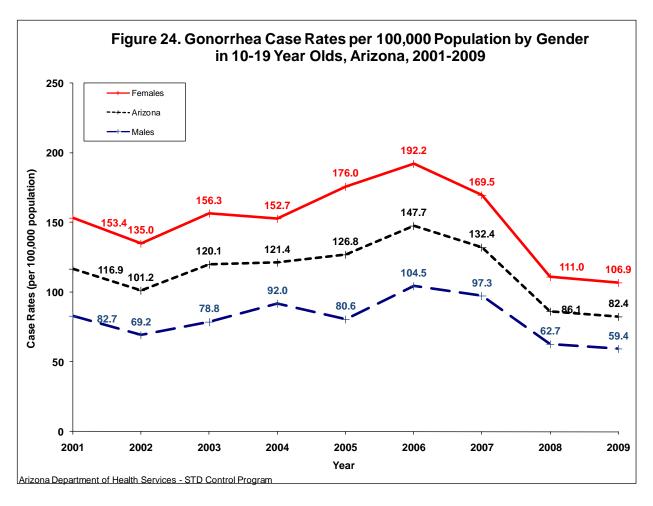
Age Group	Apache	Cochise & Santa Cruz	Coconino	Gila, Graham, & Greenlee	La Paz & Mohave	Maricopa	Navajo	Pima	Pinal	Yavapai	Yuma	Unknown	Arizona
<10	0	0	0	0	0	3	1	0	0	1	0	4	9
10-14	1	0	0	1	1	13	1	3	2	1	0	7	30
15-19	10	34	32	19	17	898	26	209	65	22	50	235	1,617
20-24	20	49	68	21	25	1,370	54	364	73	34	75	289	2,442
25-29	17	20	37	9	10	856	33	186	37	16	40	150	1,411
30-34	8	3	13	5	3	404	14	90	21	2	21	81	665
35-39	3	9	5	1	1	199	7	36	11	3	8	49	332
40-44	6	2	3	0	3	116	2	28	6	2	4	27	199
45-54	2	0	2	0	1	105	3	14	3	1	3	19	153
55-64	0	0	0	0	0	21	1	9	2	0	0	1	34
≥ 65	0	1	Ō	1	0	9	1	2	0	Ō	0	1	15
Arizona	67	118	160	57	61	3,994	143	941	220	82	201	863	6,907

Unknown gender and transgender cases not included in the tables









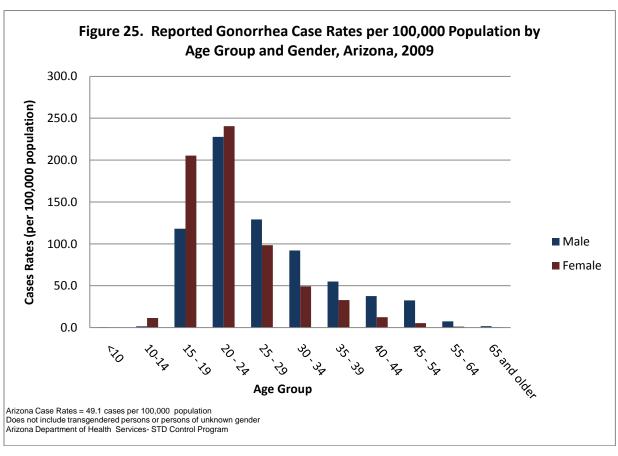


Table 5: Female Gonorrhea Case Rates per 100,000 Population by Age and County, Arizona, 2009

				Gila,								
Age		Cochise &		Graham, &	La Paz &							
Group	Apache	Santa Cruz	Coconino	Greenlee	Mohave	Maricopa	Navajo	Pima	Pinal	Yavapai	Yuma	Arizona
<10	0.0	0.0	0.0	0.0	0.0	0.0	11.1	0.0	0.0	0.0	0.0	0.2
10-14	0.0	0.0	0.0	0.0	0.0	12.2	19.2	9.2	18.2	0.0	0.0	11.4
15 - 19	0.0	110.6	101.7	119.8	0.0	243.5	112.1	159.7	48.9	15.3	51.4	205.4
20 - 24	121.7	184.9	62.7	112.6	0.0	285.4	111.9	184.2	96.5	44.7	205.5	240.5
25 - 29	110.6	0.0	43.8	130.9	0.0	107.9	146.6	73.1	29.7	0.0	161.9	98.4
30 - 34	56.4	0.0	24.1	0.0	16.8	51.1	31.1	42.9	38.1	17.0	31.2	49.4
35 - 39	47.6	0.0	24.1	0.0	0.0	32.8	62.8	36.6	0.0	0.0	16.7	32.9
40 - 44	0.0	0.0	0.0	61.0	0.0	10.8	0.0	11.5	10.6	14.4	15.4	12.5
45 - 54	0.0	0.0	0.0	0.0	6.8	6.3	0.0	2.8	5.6	0.0	0.0	5.3
55 - 64	0.0	0.0	0.0	0.0	0.0	1.5	0.0	1.7	0.0	0.0	0.0	1.2
>65	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.4
Arizona	20.6	20.7	21.6	28.1	1.7	50.6	37.5	35.9	17.9	5.2	30.1	44.8

¹⁴¹ cases from unknown counties (not shown) were calculated into Arizona case rates

Table 6: Male Gonorrhea Case Rates per 100,000 Population by Age and County, Arizona, 2009

				Gila,								
Age		Cochise &		Graham, &	La Paz &							
Group	Apache	Santa Cruz	Coconino	Greenlee	Mohave	Maricopa	Navajo	Pima	Pinal	Yavapai	Yuma	Arizona
<10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
10-14	0.0	0.0	0.0	0.0	0.0	2.0	0.0	2.9	0.0	0.0	0.0	1.7
15 - 19	0.0	88.1	0.0	47.0	0.0	138.0	36.8	101.9	3.5	0.0	62.0	118.0
20 - 24	61.9	27.5	79.1	0.0	48.1	275.7	122.9	153.8	4.2	13.4	193.6	227.8
25 - 29	0.0	20.3	87.1	0.0	12.8	145.8	23.8	109.7	5.9	12.2	169.6	129.2
30 - 34	118.6	44.4	25.0	33.8	33.5	102.2	130.3	57.5	2.9	0.0	83.4	92.2
35 - 39	0.0	40.0	0.0	0.0	0.0	62.3	65.3	28.0	0.0	17.1	51.4	55.2
40 - 44	0.0	16.9	45.4	29.7	0.0	45.0	28.1	23.6	1.8	15.4	16.0	37.7
45 - 54	22.7	0.0	10.3	0.0	7.0	38.9	14.6	11.9	1.0	6.7	28.0	32.5
55 - 64	0.0	0.0	0.0	0.0	0.0	9.3	0.0	3.8	1.3	0.0	12.6	7.5
>65	0.0	0.0	0.0	0.0	0.0	3.5	0.0	0.0	0.0	0.0	0.0	1.8
Arizona	13.2	16.2	21.7	7.4	6.3	63.3	29.9	36.8	1.8	4.5	43.3	53.8

²³⁵ cases from unknown counties (not shown) were calculated into Arizona case rates Unknown gender and transgender cases not included in the tables

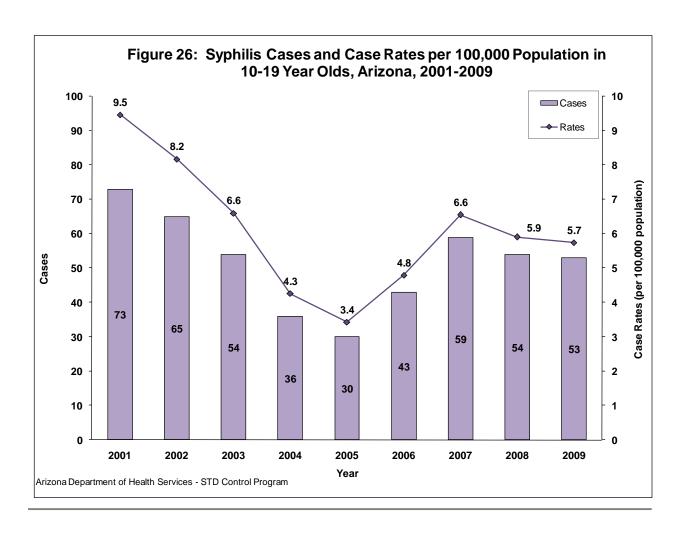
Table 7. Female Gonorrhea Cases by Age and County, Arizona, 2009

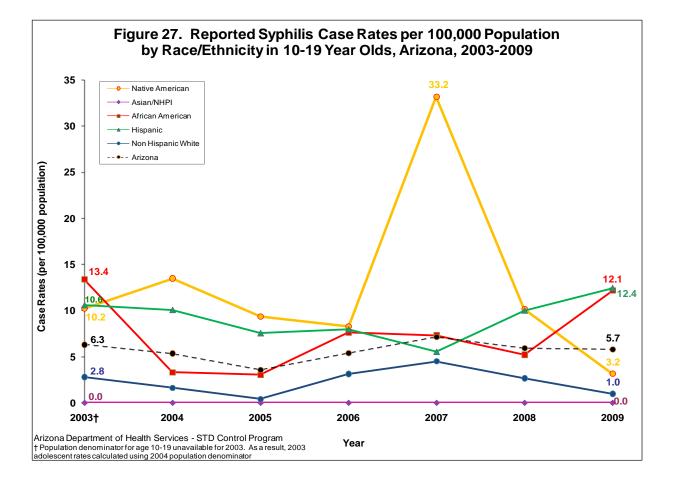
Gila, Cochise & Graham, & La Paz & Age Santa Cruz Coconino Group Apache Greenlee Mohave Maricopa Navajo Pima Pinal Yavapai Yuma Unknown Arizona <10 10-14 15-19 20-24 25-29 30-34 35-39 40-44 45-54 55-64 ≥ 65 Arizona 1,475

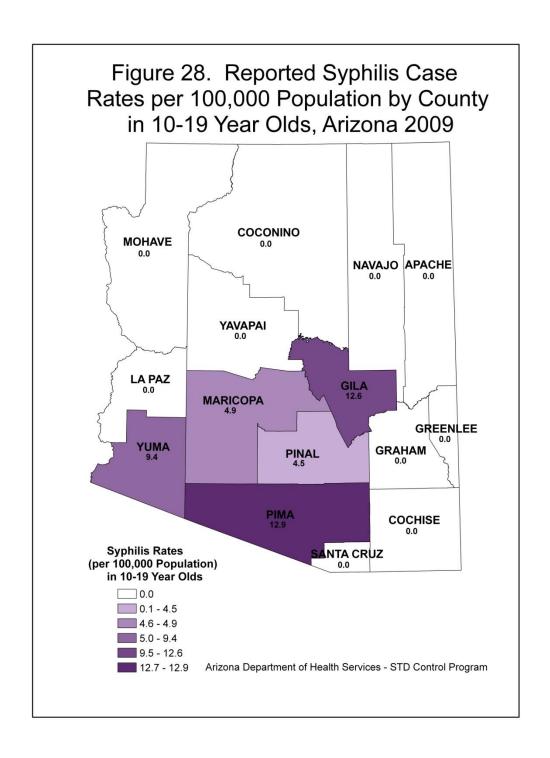
Table 8. Male Gonorrhea Cases by Age and County, Arizona, 2009

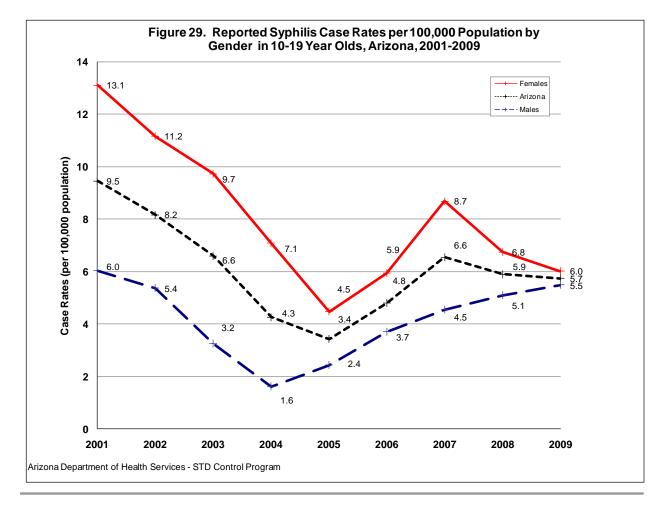
Age Group	Apache	Cochise & Santa Cruz	Coconino	Gila, Graham, & Greenlee	La Paz & Mohave	Maricopa	Navajo	Pima	Pinal	Yavapai	Yuma	Unknown	Arizona
<10	0	0	0	0	0	0	0	0	0	0	0	2	2
10-14	0	0	0	0	0	3	0	1	0	0	0	0	4
15-19	0	7	0	2	0	189	2	38	4	0	5	31	278
20-24	2	2	6	0	3	383	6	59	6	1	16	64	548
25-29	0	1	5	0	1	245	1	39	10	1	10	27	340
30-34	2	2	1	1	2	161	4	19	4	0	5	19	220
35-39	0	2	0	0	0	95	2	9	0	1	3	16	128
40-44	0	1	2	1	0	66	1	8	2	1	1	4	87
45-54	1	0	1	0	1	99	1	8	2	1	3	20	137
55-64	0	0	0	0	0	17	0	2	2	0	1	2	24
≥ 65	0	0	0	0	0	7	0	0	0	0	0	0	7
Arizona	5	15	15	4	7	1,265	17	183	30	5	44	185	1,775

Unknown gender and transgender cases not included in the tables









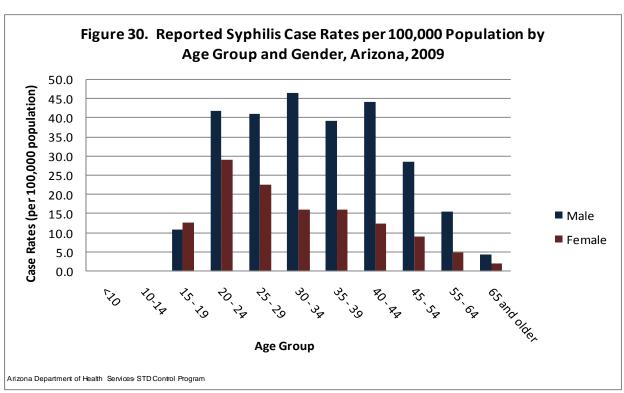


Table 9: Female Syphilis Case Rates per 100,000 Population by Age and County, Arizona, 2009

				Gila,								
Age		Cochise &		Graham, &	La Paz &							
Group	Apache	Santa Cruz	Coconino	Greenlee	Mohave	Maricopa †	Navajo	Pima	Pinal	Yavapai	Yuma	Arizona
<10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10-14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15 - 19	0.0	0.0	0.0	24.0	0.0	9.4	0.0	22.4	29.4	0.0	25.7	12.7
20 - 24	30.4	0.0	0.0	0.0	0.0	22.8	0.0	54.2	61.4	0.0	63.2	29.1
25 - 29	0.0	19.0	21.9	0.0	12.3	14.1	0.0	64.7	7.4	13.3	16.2	22.6
30 - 34	0.0	0.0	0.0	0.0	0.0	9.0	62.1	49.1	9.5	0.0	31.2	16.2
35 - 39	0.0	0.0	72.2	0.0	0.0	11.9	0.0	33.6	29.8	0.0	16.7	16.2
40 - 44	0.0	15.3	0.0	0.0	14.2	8.6	26.6	17.3	21.2	14.4	0.0	12.5
45 - 54	0.0	0.0	18.9	14.7	0.0	7.0	0.0	18.1	5.6	6.2	8.8	9.1
55 - 64	0.0	0.0	0.0	0.0	6.6	6.1	0.0	5.2	0.0	0.0	0.0	4.9
>65	23.2	0.0	0.0	0.0	0.0	1.6	0.0	4.7	0.0	0.0	5.3	2.1
Total	5.1	2.1	8.6	3.7	2.6	7.0	5.1	20.0	11.5	2.6	11.7	9.4

^{*19} cases from unknown counties (not shown) are included in the total Arizona case rates

Table 10: Male Syphilis Case Rates per 100,000 Population by Age and County, Arizona, 2009

				Gila,								
Age		Cochise &		Graham, &	La Paz &							
Group	Apache	Santa Cruz	Coconino	Greenlee	Mohave	Maricopa †	Navajo	Pima	Pinal	Yavapai	Yuma	Arizona
<10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10-14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15 - 19	0.0	0.0	0.0	0.0	0.0	10.9	0.0	26.8	0.0	0.0	12.4	11.0
20 - 24	31.0	0.0	0.0	0.0	0.0	53.3	20.5	46.9	35.4	0.0	0.0	42.0
25 - 29	0.0	40.6	0.0	0.0	0.0	44.0	47.7	45.0	11.7	0.0	33.9	41.0
30 - 34	59.3	44.4	25.0	67.7	0.0	48.9	65.2	45.4	0.0	0.0	0.0	46.5
35 - 39	0.0	0.0	24.2	0.0	0.0	37.4	32.7	62.2	0.0	0.0	17.1	39.2
40 - 44	0.0	16.9	45.4	59.5	0.0	43.7	0.0	58.9	8.8	15.4	16.0	44.2
45 - 54	0.0	0.0	0.0	0.0	0.0	35.4	0.0	26.8	10.1	6.7	18.7	28.7
55 - 64	0.0	0.0	0.0	0.0	0.0	19.7	0.0	15.3	18.9	14.1	0.0	15.6
>65	0.0	0.0	0.0	11.8	0.0	5.0	0.0	6.2	0.0	4.4	0.0	4.4
Total	5.3	5.4	5.8	9.2	0.0	24.9	8.8	25.9	7.6	4.5	6.9	22.0

^{*54} cases from unknown counties (not shown) are included in the total Arizona case rates

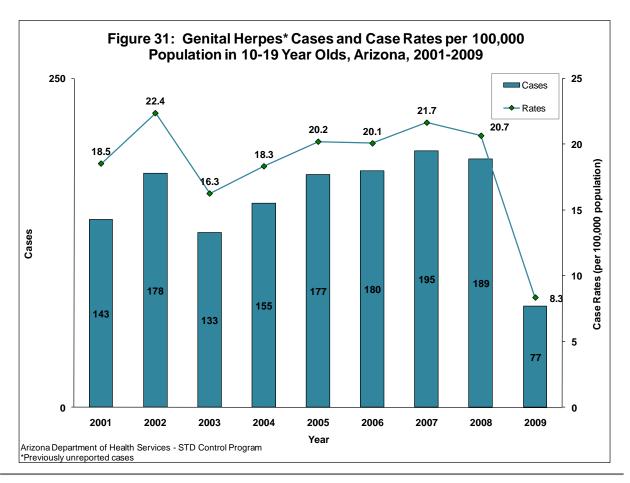
Table 11. Female Syphilis Cases by Age and County, Arizona, 2009

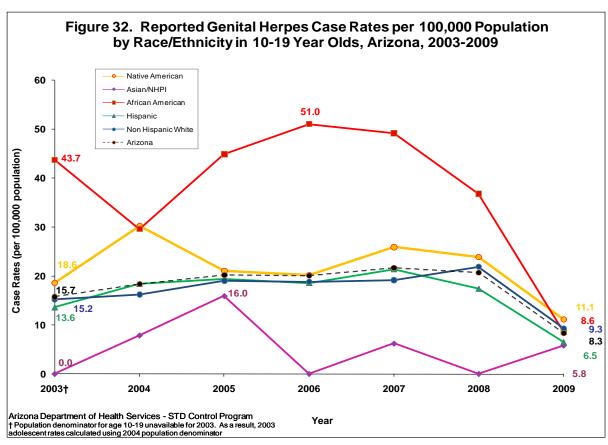
Gila, Cochise & Graham, & La Paz & Age Santa Cruz Coconino Group **Apache** Greenlee Mohave Maricopa Navajo Pima Pinal Yavapai Yuma Unknown **Arizona** <10 10-14 15-19 20-24 25-29 30-34 35-39 40-44 45-54 55-64 ≥ 65 Arizona

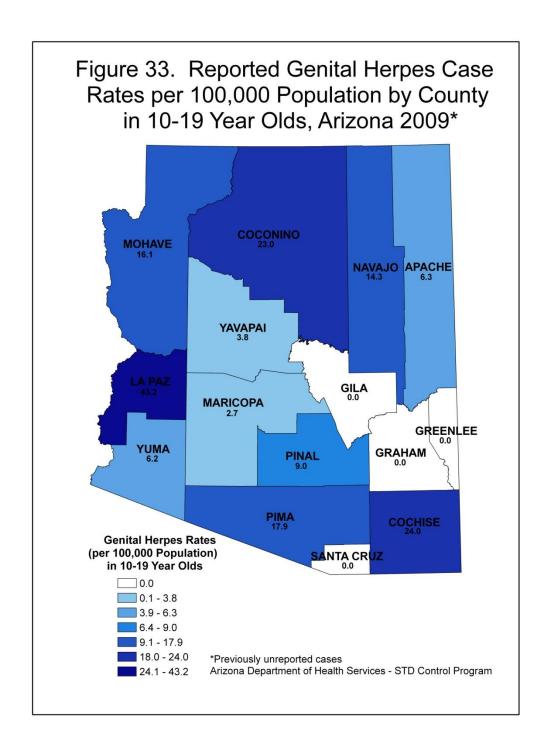
Table 12. Male Syphilis Cases by Age and County, Arizona, 2009

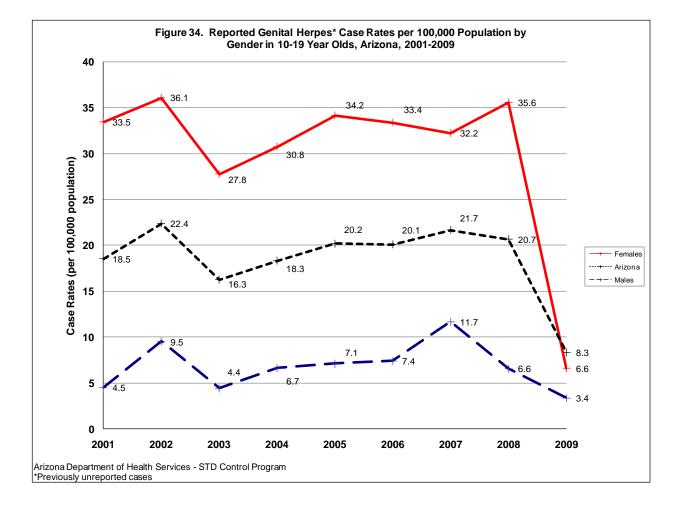
				Gila,									
Age		Cochise &		Graham, &	La Paz &								
Group	Apache	Santa Cruz	Coconino	Greenlee	Mohave	Maricopa	Navajo	Pima	Pinal	Yavapai	Yuma	Unknown	Arizona
<10	0	0	0	0	0	0	0	0	0	0	0	0	0
10-14	0	0	0	0	0	0	0	0	0	0	0	0	0
15-19	0	0	0	0	0	15	0	10	0	0	1	0	26
20-24	1	0	0	0	0	74	1	18	5	0	0	2	101
25-29	0	2	0	0	0	74	2	16	2	0	2	10	108
30-34	1	2	1	2	0	77	2	15	0	0	0	11	111
35-39	0	0	1	0	0	57	1	20	0	0	1	11	91
40-44	0	1	2	2	0	64	0	20	1	1	1	10	102
45-54	0	0	0	0	0	90	0	18	2	1	2	8	121
55-64	0	0	0	0	0	36	0	8	3	2	0	1	50
≥ 65	0	0	0	1	0	10	0	4	0	1	0	1	17
Arizona	2	5	4	5	0	497	5	129	13	5	7	54	726

Unknown gender and transgender cases not included in tables









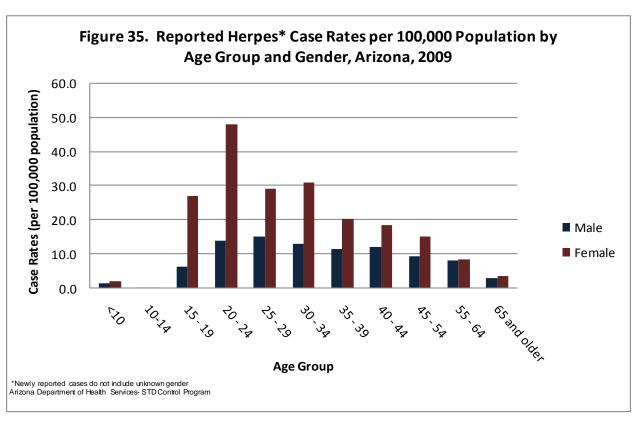


Table 13: Female Genital Herpes* Case Rates per 100,000 Population by Age and County, Arizona, 2009

				Gila,								
Age		Cochise &		Graham, &	La Paz &							
Group	Apache	Santa Cruz	Coconino	Greenlee	Mohave	Maricopa	Navajo	Pima	Pinal	Yavapai	Yuma	Arizona
<10	0.0	0.0	0.0	0.0	0.0	0.3	11.1	0.0	4.6	0.0	0.0	2.1
10-14	0.0	0.0	0.0	0.0	14.6	0.0	0.0	0.0	0.0	0.0	0.0	0.4
15 - 19	0.5	69.1	67.8	0.0	63.1	7.9	37.4	53.2	29.4	15.3	25.7	27.2
20 - 24	0.5	61.6	62.7	0.0	81.8	12.2	67.2	102.9	96.5	44.7	63.2	48.1
25 - 29	0.0	38.1	43.8	65.4	37.0	8.0	24.4	50.6	89.1	26.6	48.6	29.3
30 - 34	0.9	39.6	24.1	0.0	33.5	9.7	31.1	46.0	95.4	0.0	46.9	31.0
35 - 39	1.4	0.0	0.0	0.0	33.1	6.3	31.4	24.4	89.4	0.0	50.2	20.3
40 - 44	1.3	15.3	0.0	0.0	14.2	5.7	79.7	23.1	85.0	0.0	30.9	18.7
45 - 54	0.2	0.0	28.4	0.0	33.9	5.1	26.7	16.7	67.1	12.3	17.5	15.3
55 - 64	0.0	0.0	0.0	0.0	0.0	1.5	0.0	8.7	29.3	0.0	10.8	8.4
>65	0.0	0.0	0.0	0.0	0.0	0.8	0.0	2.4	8.5	0.0	10.5	3.8
Total	0.3	14.5	21.6	3.7	20.0	4.4	23.9	24.0	46.7	6.9	21.4	15.6

¹²⁰ cases from unknown counties were distributed as appropriate based on provider county

Table 14: Male Genital Herpes* Cases per 100,000 Population by Age and County, Arizona, 2009

				Gila,								
Age		Cochise &		Graham, &	La Paz &							
Group	Apache	Santa Cruz	Coconino	Greenlee	Mohave	Maricopa	Navajo	Pima	Pinal	Yavapai	Yuma	Arizona
<10	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	1.4
10-14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
15 - 19	0.0	0.0	16.6	0.0	0.0	3.6	18.4	16.1	8.8	0.0	0.0	6.4
20 - 24	31.0	0.0	13.2	23.8	0.0	5.8	0.0	26.1	28.3	0.0	12.1	14.1
25 - 29	0.0	0.0	0.0	0.0	0.0	4.8	47.7	36.6	41.1	0.0	84.8	15.2
30 - 34	0.0	0.0	0.0	67.7	16.8	2.5	32.6	36.3	29.1	16.4	16.7	13.0
35 - 39	0.0	20.0	0.0	0.0	16.5	3.3	65.3	18.6	56.6	0.0	17.1	11.6
40 - 44	0.0	0.0	22.7	0.0	0.0	4.8	0.0	26.5	35.2	30.8	16.0	12.1
45 - 54	0.0	0.0	20.6	14.2	7.0	3.1	58.5	14.9	15.2	0.0	9.3	9.5
55 - 64	0.0	9.4	0.0	16.1	0.0	2.7	0.0	9.6	25.2	7.1	12.6	8.1
>65	0.0	0.0	19.8	0.0	0.0	1.0	0.0	3.1	9.5	0.0	0.0	3.1
Total	2.6	2.2	8.7	9.2	2.7	2.7	17.6	14.7	21.0	3.6	10.8	7.9

⁵⁷ cases from unknown counties were distributed as appropriate based on provider county

^{*}Previously unreported cases

^{*}Previously unreported cases

Table 15. Female Genital Herpes* Cases by Age and County, Arizona, 2009

Gila, Cochise & Graham, & La Paz & Age Group Apache Santa Cruz Coconino Greenlee Mohave Maricopa Navajo Pima Pinal Yavapai Yuma Unknown Arizona <10 10-14 15-19 20-24 25-29 30-34 35-39 40-44 45-54 55-64 ≥ 65 Arizona

Table 16. Male Genital Herpes* Cases by Age and County, Arizona, 2009

				Gila,									
Age		Cochise &		Graham, &	La Paz &								
Group	Apache	Santa Cruz	Coconino	Greenlee	Mohave	Maricopa	Navajo	Pima	Pinal	Yavapai	Yuma	Unknown	Arizona
<10	0	0	0	0	0	1	0	0	0	0	0	6	7
10-14	0	0	0	0	0	0	0	0	0	0	0	1	1
15-19	0	0	1	0	0	5	1	6	1	0	0	1	15
20-24	1	0	1	1	0	8	0	10	4	0	1	8	34
25-29	0	0	0	0	0	8	2	13	7	0	5	5	40
30-34	0	0	0	2	1	4	1	12	4	1	1	5	31
35-39	0	1	0	0	1	5	2	6	7	0	1	4	27
40-44	0	0	1	0	0	7	0	9	4	2	1	4	28
45-54	0	0	2	1	1	8	4	10	3	0	1	10	40
55-64	0	1	0	1	0	5	0	5	4	1	1	8	26
≥ 65	0	0	1	0	0	2	0	2	2	0	0	5	12
Arizona	1	2	6	5	3	53	10	73	36	4	11	57	261

Unknown gender and transgender cases not included in tables

^{*}Previously unreported cases